

CLAIMS

1 A synthetic turf surface for golf and other grass-type game playing
surfaces formed of a synthetic grass carpet having a flexible base sheet with closely
spaced apart, upright blade-like strands of plastic material secured to the sheet, and
5 with the strands forming a densely packed, exposed upper surface and said base
sheet being positioned upon a resilient cushion underpad arranged upon a firm
support surface, the improvement comprising:

said underpad being formed of a relatively thick sheet of a molded,
open cell, expanded, resilient polypropylene bead material;

10 whereas said carpet and its supporting underpad closely simulate a
portion of a natural grass golf course surface, such as a green or tee-off or fairway
portion and similar grass-type playing surfaces.

2. A synthetic turf surface as defined in claim 1 and said polypropylene
beads being of density of between about 1.3 to 2.8 pounds per cubic foot and said
15 underpad being of a thickness of between about 1/4 inch to 12 inches.

3. A synthetic turf surface as defined in claim 2 and said polypropylene
material being of a density of approximately between about 1.3 and 1.9 pounds per
cubic foot and a thickness of approximately between about 1 inch to 2 inches whereby
the surface forms a simulated natural golf green or a tee-off portion of a golf course.

20 4. A synthetic turf surface as defined in claim 2 and with the density of
said polypropylene material being approximately 1.9 pounds per cubic foot and of a
thickness of approximately between about 1/2 inch to 1 inch thickness to form a
simulated natural grass tennis court playing surface.

5. A synthetic turf surface as defined in claim 2 and with the density of
25 said polypropylene material being approximately 1.3 pounds per cubic foot and said
underpad being approximately between about 1 to 2 inches thick to form a simulated
natural golf surface tee-off portion.

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6. A synthetic turf surface as defined in claim 2 and with the density of said polypropylene material being in the range of approximately 1.9 pounds per cubic foot and the thickness of the underpad being approximately between about 1 to 2 inches, to form a simulated natural golf green surface.

5 7. A synthetic turf surface as defined in claim 1 and said underpad being molded of expanded polypropylene beads of approximately between about 1.3 to 2.8 pounds per cubic foot density and approximately between about 1/2 inch to 2 inches thickness, molded into a unitary, open cell, pad of a density of approximately between about 1.5 to 3 pounds per cubic foot.

8. A synthetic turf surface as defined in claim 7 and with the density of said molded underpad being approximately 2.36 pounds per cubic foot to form a simulated natural golf green or the like portion of a golf course surface.

9. A synthetic turf surface as defined in claim 1 and including the upper end portions of said strands being shredded into fine slivers which are densely matted and intertwined, and with a layer of sand-like particulate material applied upon the upper surface of the base sheet and generally beneath the intertwined slivers and substantially filling the interstices between the strands and said layer is covered by said intertwined slivers.

10. A synthetic turf surface as defined in claim 1 and including an adhesive-like reinforcement layer of a flexible, resilient material, applied to the lower surface of the base sheet and above the upper surface of the underpad and formed of a synthetic plastic material such as a polyurethane plastic.

11. A synthetic turf surface as defined in claim 1 and including numerous, spaced-apart, short slits formed in the carpet with the slits being of a size to temporarily receive a downwardly inserted standard size golf tee, whereby a golf player may manually insert a tee in any selected slit to support a golf ball for a drive.